

**Amendment to the Claims:**

This listing of claims will replace all versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1 – 13 (Canceled)

14. (Currently Amended) An apparatus comprising:

a tracking ~~implementation device~~ for tracking signal strength of each wireless client's wireless link with each respective wireless access point for a plurality of wireless clients in communication with a plurality of access points; and

a control ~~device~~~~implementation~~ for varying the operation of at least one of the respective wireless access points and wireless clients so as to ~~acquire~~~~achieve~~ maximum signal strength for each wireless client's wireless link with each respective wireless access point;

wherein the control device is operable to perform at least one control action to vary the operation of at least one of the plurality of wireless access points and at least one of the plurality of wireless clients; and

wherein the at least one control action is selected from a group consisting of client admission control, varying the signal power of at least one of the plurality of wireless clients, and varying the signal power of at least one of the plurality of wireless access points.

15. (Currently Amended) The apparatus of claim 14, ~~further comprising~~wherein the tracking ~~device~~~~implementation~~ is ~~further~~ configured to track ~~one of a group consisting of packet error rate, channel~~~~[[;]]~~ rate and processor performance.

Claims 16 - 24 (Canceled)

25. The apparatus of claim 14, wherein the tracking device is further configured to track channel rate.

26. The apparatus of claim 14, wherein the tracking device is further configured to track processor performance.

27. (New) The apparatus of claim 14, wherein the control action is selected from a group consisting of wireless client admission control, changing operating frequency of at least one of the plurality of access points, changing operating frequency of at least one of the plurality of wireless clients, varying the signal power of at least one of the plurality of wireless clients, changing the signal power of at least one of the plurality of access points, changing data rate of a wireless link between at least one of the plurality of access points and at least one of the plurality of wireless clients, changing the coding of a wireless signal between at least one of the plurality of access points and at least one of the plurality of wireless clients, changing the modulation of a wireless signal between at least one of the plurality of access points and at least one of the plurality of wireless clients, and varying packet length.

28. (New) An apparatus, comprising:

a tracking device configured for tracking processor performance for a plurality of access points having wireless links with a plurality of wireless clients; and

a control device configured for varying the operation of at least one of the plurality of access points and at least one of the plurality of wireless clients to provide balanced access point digital processing performance;

wherein the control device is operable to performs at least one control action to provide balanced access point digital processing performance; and

wherein the at least one control action is selected from a group consisting of client admission control, varying the signal power of at least one of the plurality of wireless clients, and varying the signal power of at least one of the plurality of wireless access points.

29. (New) The apparatus of claim 28, wherein the control action is selected from a group consisting of wireless client admission control, changing operating frequency of at least one of the plurality of access points, changing operating frequency of at least one of the plurality of wireless clients, varying the signal power of at least one of the plurality of wireless clients, changing the signal power of at least one of the plurality of access points, changing data rate of a

wireless link between at least one of the plurality of access points and at least one of the plurality of wireless clients, changing the coding of a wireless signal between at least one of the plurality of access points and at least one of the plurality of wireless clients, changing the modulation of a wireless signal between at least one of the plurality of access points and at least one of the plurality of wireless clients, and varying packet length.

30. The apparatus of claim 28, wherein the tracking device is further configured to track channel rate.

31. The apparatus of claim 28, wherein the tracking device is further configured to track packet error rate.

32. The apparatus of claim 28, wherein the access point digital processing performance includes adequate memory capacity.

33. The apparatus of claim 28, wherein the access point digital processing performance includes adequate Central Processing Unit (CPU) processing cycles.

34. The apparatus of claim 28, wherein the access point digital processing performance includes adequate uplink network capacity.

35. (New) An apparatus, comprising:

a tracking device configured for tracking multipath for each wireless client's wireless link with each respective wireless access point for a plurality of wireless clients in communication with a plurality of access points; and

a control device for varying the operation of at least one of the respective wireless access points and wireless clients so as to minimize multipath for each wireless client's wireless link with each respective wireless access point;

wherein the control device is operable to perform at least one control action to vary the operation of at least one of the plurality of wireless access points and at least one of the plurality of wireless clients; and

wherein the at least one control action is selected from a group consisting of client admission control, varying the signal power of at least one of the plurality of wireless clients, and varying the signal power of at least one of the plurality of wireless access points.

36. (New) The apparatus of claim 35, wherein the control action is selected from a group consisting of wireless client admission control, changing operating frequency of at least one of the plurality of access points, changing operating frequency of at least one of the plurality of wireless clients, varying the signal power of at least one of the plurality of wireless clients, changing the signal power of at least one of the plurality of access points, changing data rate of a wireless link between at least one of the plurality of access points and at least one of the plurality of wireless clients, changing the coding of a wireless signal between at least one of the plurality of access points and at least one of the plurality of wireless clients, changing the modulation of a wireless signal between at least one of the plurality of access points and at least one of the plurality of wireless clients, and varying packet length.

37. The apparatus of claim 35, wherein the tracking device is further configured to track channel rate.

38. The apparatus of claim 35, wherein the tracking device is further configured to track packet error rate.

39. The apparatus of claim 35, wherein the tracking device is further configured to track processor performance.